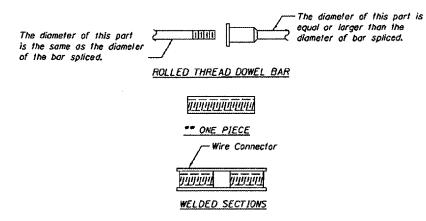
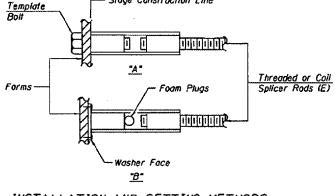
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



BAR SPLICER ASSEMBLY ALTERNATIVES

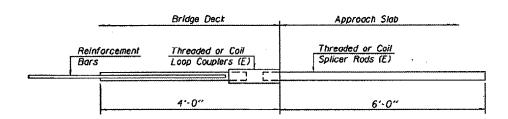
** Heavy Hex Nuts conforming to ASTM A 563, Grade C. D or DH may be used.



- Stage Construction Line

INSTALLATION AND SETTING METHODS

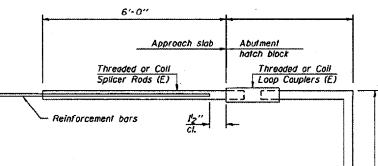
"A": Set bar splicer assembly by means of a template bott. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

	Bai	Splicer	for #5	bar	
Win.	Capacity	= 23.0	kips -	tension	
Win.	Pull-out	Strength	= 9.2	kips ·	tension

	· · · · · · · · · · · · · · · · · · ·
DESIGNED -	
CHECKED -	EXAMINED
DRAWN -	PASSED ENGINEER OF BROOSE DESIGN
	ENGINEER OF BRIDGES MO STRUCTURES
CHECKED .	
RSD-1	m-22-04



FOR PILE BENT ABUTMENTS

	Bai	Splicer	for	#5	bor		
Min.	Capacity	= 23.0	kips	; -	tensi	on	
Min.	Pull-out	Strength	=	9.2	kips	•	tension
No.	Required	=					

SHEET NO. 5 -37% 12 11 . 5 SHEETS FEG. MONE GEE!, MG. 7 SUPPLIE FEEL AND PARTY

Contract # 62968

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 kel yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and fied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer ossembly satisfies the following requirements:

(Tension in kips) = 1.25 x fy x A

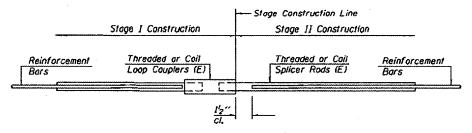
Winimum "Pull-out Strength = 1.25 x 1s allow x A₁

Where fy = Yield strength of lapped reinforcement bars in ksi.

fs_{allow}. Allowable tensile stress in lapped reinforcement bars in ksi (Service Load) A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

	BAR SPLIC	CER ASSEMBLI	ES
		Strengt	h Requirements
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8''	14.7	5.9
#5	2'-0"	23.0	9.2
# 6	2'-7"	33.1	13.3
#7	3′-5″	45.1	18.0
* 8	4'-6"	58.9	23.6
#9	5'-9''	75.0	30.0
#10	7'-3"	95.0	38.0
#]]	9'-0"	117.4	46.8

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications. except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."



STANDARD

Bar Size	No. Assemblies Required	Location
# 5	12	DECK
#6	16	AB UT

BAR SPLICER ASSEMBLY DETAILS